



## Calhoun: The NPS Institutional Archive

---

Institutional Publications

Today@NPS

---

2015-09

## Today@NPS / September 2015

### NPS Public Affairs Office

Monterey, California : Naval Postgraduate School

---

<http://hdl.handle.net/10945/47141>



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>

[About NPS](#)[Academics](#)[Administration](#)[Library](#)[Research](#)[Technology](#)[Services](#)**Today@NPS - September 2015**[NPS](#) > [About NPS](#) > [Publications](#)

Today@NPS showcases some of the speakers, conferences, experiments, lectures, and other events that take place at the Naval Postgraduate School on a daily basis. If you would like more information about any of the highlighted activities please contact the public affairs office at [pao@nps.edu](mailto:pao@nps.edu). To view more stories visit the [Today at NPS archive](#). NPS' photo galleries and graduation pictures can be found on the [Photo Gallery - Collections page](#).



U.S. Navy photo by Javier Chagoya

**The Peacocks Have Returned***By Javier Chagoya*

Two brilliantly-colored peacocks strut their stuff outside Herrmann Hall while acclimating to their new surroundings, Sept. 30. After seeing the familiar fowl up for adoption through the Monterey Society for the Prevention of Cruelty to Animals, Naval Support Activity Monterey (NSAM) leadership took the opportunity to return these popular residents to the campus.

"Peacocks have long been associated with NPS and NSAM. We are delighted to support the re-introduction of these birds to the base, they add a richness and splendor to an already amazing installation," said NSAM Commanding Officer, Capt. Kevin Bertelsen.

Installation Environmental Program Manager Johanna Turner and NSAM Natural Resource Specialists Todd Wills and Vickie Taber picked up the peacocks from the SPCA. They were surrendered after their previous owners moved to a new home that could not accommodate the birds.

"We brought them to NPS and placed them in the La Novia Terrace for a few days to acclimate them to their new home. They are now free to roam the installation, but still frequent the La Novia Terrace," said Taber.

Although not native to North America, this species of peafowl is known to have only a minimal impact on native animals and plants. No other exotic birds will be permitted on campus and there is no plan to introduce peahens since hatchlings may result.

*Posted September 30, 2015*

U.S. Navy photo by MC1 Lewis Hunsaker

**NPS Provost Honored With Navy Distinguished Civilian Service Award***By MC1 Lewis Hunsaker*

Provost Dr. Douglas A. Hensler addresses the NPS Deans and Chairs after receiving the Navy Distinguished Civilian Service Award in Herrmann Hall, Sept. 28. Hensler announced his retirement late last month to spend more time with his wife Janie and the rest of his family in their home state of Oregon.

"Thank you all ... The stuff that was read in the award are all things that you folks did," said Hensler. "As many of you have noticed I have moved around quite a bit in my career and I wouldn't be standing here without all the support from my wife, Janie. She has been my rock. This award really is a tribute to her."

During the ceremony NPS President retired Vice Adm. Ronald A. Route also recognized Janie with a Certificate of Appreciation.

"Our product at NPS is intellectual capital knowledge. We create a special product for our students, and many people won't understand the nature of that product," said Hensler. "We need to educate those that don't understand this, and how valuable our product truly is."

"There are some people that have been here for a very long time and they have seen the peaks and valleys," he continued. "NPS has been in a valley for some time now, but I expect NPS to be a very strong institution again, within the next few years. I encourage everyone to hang in there."

Hensler's academic achievements include a BSE in Aerospace and Mechanical Sciences from Princeton University, an MBA from the University of Portland, and a Ph.D. in Finance from the University of Washington. He is also a licensed professional engineer in Quality Engineering in the State of California. Hensler became the Naval Postgraduate School Provost in June 2013.

*Posted September 29, 2015***Distinguished Professor Honors Conferred at Graduation Ceremony***By MC2 Michael Ehrlich*

NPS President retired Vice Adm. Ronald A. Route and Military Officers Association of America (MOAA) President retired Vice Adm. Norbert R. Ryan confer distinguished professor honors upon Professor David Yost during NPS' 2015 Summer Quarter Commencement ceremony in King Auditorium, Sept. 25. Yost was recognized for his scholarly contributions to NPS, the Department of Defense, NATO and academic institutions around the world.

"I feel profoundly grateful and honored to have been awarded this title," said Yost. "After many years as a professor, my responsibilities remain the same. I teach and conduct research about European politics and security issues."



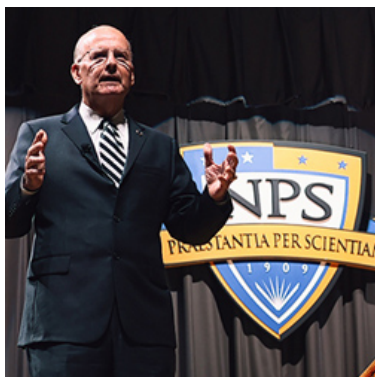
U.S. Navy photo by MC2 Michael Ehrlich

Those issues include matters of strategic import like military deterrence, missile defense, and the organizational structures of allied forces. Yost has found a receptive audience in the students who rely upon him to make sense of organizations like NATO and the European Union.

"NPS students are preparing to work with U.S. allies and partners around the world," said Yost. "They are highly motivated to learn about ongoing and emerging security issues, and about the challenges of working with allies and partners in various types of operations."

Since joining NPS in 1979, Yost has served as the lead advisor or co-advisor on 171 master's theses and received the Outstanding Research Achievement Recognition four times. He is the author of over 200 publications and has held fellowships from Fulbright, NATO, the Council on Foreign Relations, the Woodrow Wilson International Center for Scholars, and the United States Institute of Peace.

*Posted September 28, 2015*



U.S. Navy photo by MC2 Shawn Stewart

### NPS Honors Summer Graduates During Quarterly Ceremony

*By Kenneth A. Stewart*

Military Officers Association of America (MOAA) President retired Vice Adm. Norbert R. Ryan Jr., above, addresses NPS students, faculty and staff during NPS Summer Quarter Commencement Ceremony in King Auditorium, Sept. 25. NPS said farewell to 330 students earning 335 degrees at the ceremony.

"I can't tell you how inspired I was to watch you all file in this morning ... This nation's greatest treasure is the young men and women that serve," said Ryan.

Sgt. Robert Brady, a supervisor in the New York Police Department's counter-terrorism unit, was one of those students.

"My experience here was humbling," said Brady. "Being put together with such a diverse group of people from so many different disciplines was excellent. We challenged each other and drew out the best in one another to become better homeland security professionals."

As keynote speaker, Ryan shared examples of heroism and perseverance that he witnessed throughout his career and challenged the assembled student body to lead by example, and to never quit in the face of adversity.

"Leadership is not about words, we all know that, leadership is about being an example," he said.

Ryan also called for the assembled students, faculty and staff to do their part to advocate for their fellow service members and their families.

"All of us collectively ... have to make sure that the 99 percent of the population that have not served keep their commitments to those that have served, or will serve in the future," said Ryan. "Please speak up to your elected officials about the importance of keeping our commitments to the men and women, and their families, that have kept us free for the last 14 years."

Ryan was recently recognized as one of the 100 most influential and impactful veterans on Capitol Hill. Under his leadership, the MOAA has been named a "Top Lobbyist" by The Hill newspaper for the past eight years.

*Posted September 25, 2015*



U.S. Navy by Javier Chagoya

### Top Performers Honored at Summer Quarter Awards Ceremony

*By Javier Chagoya*

NPS student Lt. Michael R. Cribbs, center, receives the 128th Armed Forces Communications and Electronics Association (AFCEA) John McReynolds Wozencraft Electrical and Computer Engineering Award, during the Summer Quarter Academic Awards ceremony in Herrmann Hall, Sept. 15. Pictured with the soon-to-be electrical engineering graduate is AFCEA Monterey Chapter President Lawrence Reeves, left, NPS President retired Vice Adm. Ronald Route, standing middle, and Cribbs' spouse Ingrid, twins Finn and Larsen and 4-year old daughter Anna.

Reeves noted that it was Cribbs' thesis, "Multiple-Input Multiple-Output Wavelet Packet Modulation Based Software-Defined Radio Transceiver Design," that caught his attention and made him a perfect selection for the award.

"His work revealed promising results in advancing the communications field, and it's this kind of inquiry that our engineers need to exhibit in the game of discovery," Reeves said.

Cribbs' thesis advisor, Professor Frank Kragh, had his own positive comments on the value of his student's effort.

"Michael's contributions include solving important design problems not previously discussed in the literature on wavelet packet modulation, including time and frequency synchronization, equalization and space-time codes," said Kragh.

In addition to the award itself, Cribbs earned a lifetime membership in AFCEA, and was presented with a copy the well-known textbook, "Principals of Communications Engineering," co-authored by Wozencraft and Dr. Irwin Jacobs.

Cribbs, a native of Eudora, Kansas, enlisted in the Navy in 2004, in the submarine force and went on to earn an officer's commission in the Seaman to Admiral-21 Program. Prior to attending NPS, he served aboard USS Alabama (SSBN 731).

*Posted September 24, 2015*



U.S. Navy photo by MC2 Michael Ehrlich

### Latest Warfare Innovation Workshop Focused on Asymmetric Warfare

By MC2 Michael Ehrlich

NPS Warfare Innovation Chair Navy Capt. Jeff Hyink addresses the Consortium for Robotics and Unmanned Systems Education and Research (CRUSER) Warfare Innovation Workshop (WIW) in Glasgow Hall, Sept. 21. Hyink discussed how past workshops have inspired student research and contributed to the quality of the NPS experience.

"We have many things that come to NPS in the form of questions, challenges, money and expertise," said Hyink. "Innovation workshops bring your focus to bare on a handful of these inputs."

According to CRUSER Director Dr. Ray Buettner, the WIW intends to create real-world, real-time changes in the Department of Defense.

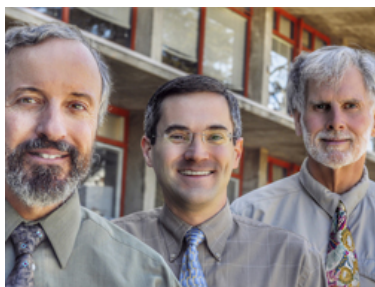
"Our job is to not do what everyone else does in the Navy," said Buettner. "We are looking for different ideas and we're trying to create environments where new things can happen."

There is precedent for what Buettner wants to accomplish. He points to past government research, in related fields, that has benefited society as a whole.

"Engineers and scientists working for the government created the predecessor to the Internet and then industry took off with it. Robotics and unmanned systems will do the same thing," said Buettner.

As directed by the Secretary of the Navy, CRUSER supports the Navy's mission through education and research in the fields of unmanned systems and robotics and is funded through the Office of Naval Research.

Posted September 23, 2015



U.S. Navy photo by MC2 Shawn J. Stewart

### Physics Professors Honored With Prestigious Electronic Warfare Award

By MC2 Shawn J. Stewart

NPS Department of Physics Research Associate Professor Joseph Blau, Research Assistant Professor Keith Cohn and Distinguished Professor Emeritus William Colson, from left, are pictured in front of Spanagel Hall, Sept. 19. The trio makes up NPS' Directed Energy Physics Group (DEPG), and has recently been honored with the Association of Old Crows Technology Development Award in the directed energy category.

"It's meaningful to us that our accomplishments are being recognized by an organization whose scope is much broader than the DE [directed energy] field that we work in," said Cohn. "It could enable us to establish relationships with others who work in related EW [electronic warfare] fields, potentially leading to new collaborations that would enhance our research and benefit our students, NPS and the Navy."

The DEPG has been studying directed energy at NPS for the last 25 years. Nearly 100 students have received advanced degrees under the group's guidance.

"Many of these students have gone on to hold high ranking positions in the Navy's various directed energy programs," said Cohn. "This award recognizes the totality of this body of work and influence."

Past DEPG students include a number of notable leaders in the DE and EW fields, such as retired Navy Capt. Roger McGinnis, former director of the NAVSEA Directed Energy office; retired Navy Capt. Dave Kiel, former program manager for the Laser Weapon System (LaWS); and recent graduates like Cmdr. Ricardo Vigil, who is working on a next generation laser weapon that will eventually replace the LaWS.

"The recognition of our group illustrates NPS' value to the Navy, especially with respect to cutting edge technologies like directed energy," said Blau.

The Association of Old Crows is an organization of individuals with common interests in electronic warfare, information operations, and other information-related capabilities. With members in 47 countries, AOC's membership includes executives, scientists, engineers, managers, operators, educators and military personnel.

Posted September 22, 2015



Navy Photo by MC3 Brian H. Abel

### NWC Monterey Celebrates 64th Graduating Class

By MC3 Brian H. Abel

The 64th graduating class of the Naval War College (NWC) Monterey partnership with NPS stands for a group portrait on the front steps of Herrmann Hall, Sept. 17. NPS partners with NWC Monterey to provide Joint Professional Military Education (JPME) phase 1 certification to select students while they are on site for their graduate degrees.

NWC Monterey Chairman, Professor Fred Drake, and Dr. William Eliason, Director of National Defense University Press and the Editor in Chief of Joint Force Quarterly presided over the ceremony where a total of 70 U.S. Navy, Marine Corps, and Army officers earned their NWC Command and Staff diploma with JPME Phase I certification.

To date, a total of 4,147 officers have earned this certification since the program's inception in September 1999.

Posted September 21, 2015





U.S. Navy photo by Javier Chagoya

### Long-Time Faculty Member Appointed to SES, Says Farewell

By Javier Chagoya

NPS Department of Mechanical and Aerospace Engineering (MAE) Professor and past Chair Dr. Knox Millsaps displays his Navy Superior Civilian Service Award in front of Herrmann Hall, Sept. 11. Millsaps bids farewell to NPS after 23 years on campus to serve in the Senior Executive Service.

"While I am happy to be moving on to face new challenges and opportunities, I will miss many aspects of NPS," said Millsaps. "NPS has a unique mission and a really special faculty and staff that serves that mission."

Millsaps has served in various academic, directorship and chairman positions at NPS from 1992 to the present. He has advised nearly 100 students over that span, and says it's one of the aspects of his tenure at NPS that he will greatly miss.

"I will miss the officer students the most," Millsaps noted. "Teaching in the classroom was always very enjoyable, but the one-on-one interactions with my thesis students were really special."

"I've had the tremendous opportunity to have about 100 master, mechanical engineer, and doctoral students during my 23 years on the faculty," he continued. "Probably second to that is the young faculty I hired as department Chairman, who will carry the torch for decades to come and make NPS even better."

Millsaps' appointment to the Senior Executive Service was announced in the July issue of Executive Anchors. He will serve as the director of the Office of Naval Research Aerospace Science Research Division.

Posted September 18, 2015



U.S. Navy photo by MC2 Shawn Stewart

### Navy Higher Ed Leaders Seek Opportunities for Synergy

By NPS Public Affairs

Select senior information technology, financial and library leadership from the Navy's educational institutions are pictured during the latest gathering of the Navy Higher Education Information Technology Consortium. The group meets annually to seek opportunities for potential collaboration among the Navy's educational institutions.

"As key mission enablers of the three Schools, the information technology, library, comptroller and contracting leadership teams came together to determine ways in which efficiencies and economies of scale could be realized with shared services," noted NPS Deputy Chief Information Officer Chris Gaucher. "This included sharing of software license costs, standardizing on reference material repositories, and leveraging one another's contracting and logistics management services."

In a diversion from its usual mode of operations, the NHEITC was directed on an expanded course this year. Vice Chief of Naval Operations Adm. Michelle Howard, Chair of the Navy's Advanced Education Review Board, requested Navy university IT leadership be joined by senior representatives of each institution's library, comptroller and contracting offices. According to NPS IT leaders, the inclusive approach served as a catalyst for a cross-functional team to address IT opportunities at the schools.

"Ultimately, these efforts will reduce taxpayer costs and increase the quality of support services that are delivered to each of the school's students, staff and faculty," stressed Gaucher.

Posted September 17, 2015



U.S. Navy photo by MC1 Lewis Hunsaker

### Associate Professor Aruna Apte Honored With Hamming Award

By MC1 Lewis Hunsaker

Graduate School of Business and Public Policy (GSBPP) Associate Professor Aruna Apte teaches a Humanitarian Assistance and Disaster Relief (HADR) class in Reed Hall, Sept. 9. Apte was recently recognized with the 2015 Richard W. Hamming Award for Achievement in Teaching.

"I'm very thrilled to receive this award," said Apte. "I have received more than 50 e-mails, some of them from my students, congratulating me, which makes me feel very good."

The Hamming Award recognizes NPS faculty members for outstanding teaching, excellence in thesis supervision, and for the strength of their contributions to NPS students beyond the classroom.

"Dr. Apte is by far one of the best professors I have had," said U.S. Marine Corps Maj. Joshua Gregory. "On multiple occasions, she has taken time out of her own schedule to get to know her students and their families. She is a teacher, a mentor, and a true role model to her students."

Apte's research interests in HADR operations led her to develop and teach an acclaimed course on the subject. She has advised nearly 100 students completing 46 theses, eight of which were recognized as outstanding by GSBPP, and two of which earned the Surface Navy Association Award for Academic Excellence in Surface Warfare.

Posted September 16, 2015

### Top Surface Warfare Officer Introduces SWO Chair

By Kenneth A. Stewart

Commander, Naval Surface Forces, Vice Adm. Thomas S. Rowden, center, leads a delegation to one of several program briefings just before his Secretary of the Navy Guest Lecture (SGL), Sept. 10. Rowden used the SGL forum to discuss current developments throughout the surface warfare community and to introduce NPS to its first surface warfare chair, Capt. Charles Good.

"It gives me great pleasure to establish a SWO chair here. I have been dreaming about doing this for a very long time," said Rowden.



U.S. Navy photo by Javier Chagoya

"If you need a mentor, Chuck Good is your guy. He will be your conduit for any and all surface Navy related topics."

Rowden also discussed major developments throughout the surface warfare fleet, recognizing the contributions of NPS students and faculty to everything from the development of tactics for the Navy's latest littoral vessels, to analysis of current and future arctic operations.

"I want to impress on you just how much value I see in NPS, its faculty, and all of you," said Rowden. "We are a maritime nation, the ocean is not getting any smaller and the world is not getting any safer ... There's a lot of work to be done, let's get going."

*Posted September 15, 2015*



U.S. Navy photo by Javier Chagoya

### Engineering Students Tour Northrop Grumman Facility

*By Javier Chagoya*

U.S. Navy Ens. Eric Bermudez, Lt. Christopher Deigel and Lt. Cmdr. Derek Fletcher, from left to right, are pictured in NPS' engineering and fabrication laboratory, Sept. 8. The trio was part of a cadre of nearly 50 students recently treated to a tour of Northrop Grumman's engineering and fabrication facility in Sunnyvale, Calif., providing them with a first-hand view on the precision engineering used in creating the vessels they serve on.

"The experience of seeing the amount of work that goes into the manufacturing of precision machines used onboard our naval vessels was extremely invaluable," said Deigel. "Along the tour, we were shown multiple main reduction gear sets and steam turbine assemblies in various stages of production. The opportunity to see the various subcomponents and how they interact in these complex machines cemented the theoretical knowledge we've been learning in the classroom at NPS."

The students added that they were astounded by the sheer size of the fabrication machines in the facility, able to output a machined gear assembly weighing several tons with extreme levels of precision.

"Quality control is ever-present along the production line. This allows various subcomponents to be joined together at the end of manufacturing to be immediately tested by the onsite steam system," noted Deigel. "It was amazing to see the process, to go from raw material to a final main reduction gear assembly, tested, approved and then shipped to Electric Boat in Connecticut."

Northrop Grumman's Sunnyvale plant is a supplier of turbine generator sets for nuclear submarines and aircraft carriers, and is the Navy's supplier of main propulsion units for nuclear attack submarines. The student tour was arranged by NPS Department of Mechanical and Aerospace Engineering Chair, Dr. Garth Hobson.

*Posted September 14, 2015*



U.S. Navy photo by MC2 Shawn J. Stewart

### NPS, NSAM Commemorate 9/11 on Patriot Day

*By MC2 Shawn J. Stewart*

NPS President retired Vice Adm. Ronald A. Route shares his thoughts with students, faculty and staff during the Naval Support Activity Monterey's (NSAM) Patriot Day ceremony at Centennial Park, Sept. 11. The ceremony also included opening comments from NSAM Commanding Officer Capt. Kevin Bertelsen.

"Today we remember those we lost on 9/11 and celebrate our nation's strength and resilience. We draw inspiration from the ways in which survivors and victims continue to honor their legacies," said Bertelsen.

Route was in the Pentagon preparing to brief the Chief of Naval Operations (CNO) when the initial attacks began. He, like many others, dismissed initial reports as a possible aviation accident. But Route and the rest of the nation quickly learned that something far more significant was happening. He was just one "wedge" over from where the third plane struck the Pentagon.

"Midway through the briefing [the CNO's] red phone rang. He went over and picked it up and explained that a second plane had hit another building in New York City," recalled Route. "We thought about that for a few minutes and continued on. About 20 minutes later, we felt and heard the airplane that crashed into the Pentagon."

Route closed his remarks with a sobering message before thanking the active duty and civilian staff in attendance.

"I admire what our Navy and DOD civilians are doing. Recognize the fact that the world has changed and that you are as much at risk as we are," he said, noting that if there is a single lesson to be learned, it is vigilance. "The world has changed ... the threat of terrorism is real."

*Posted September 11, 2015*

### NPS Marines Thank City Leaders, Alumnus for Dining Out Support

*By MC1 Lewis Hunsaker*

NPS Senior Marine Corps Representative Col. Mitchell McCarthy, center left, presents a framed set of photos from the service's recent dining out in recognition of the city's support of the event to Monterey City Manager Mike McCarthy, left, at the City Manager's Office, Sept. 8.

"We really appreciate the City of Monterey for providing security support during the Marine Corps dining out event at Monterey's Custom House," said McCarthy. "This event was only a week after the Chattanooga shooting, and the city's support ensured the



U.S. Navy photo by MC1 Lewis Hunsaker

event was a success."

Part of the city team that helped make the support happen is City of Monterey Police Chief Dave Hober, center right, and Assistant City Manager and NPS alumnus Hans Uslar, right. A German Surface Warfare Officer, Uslar graduated from NPS in 1992, and married a Pacific Grove native along the way. Uslar eventually returned to the Monterey Peninsula, continuing his own public service where he serves as Monterey's Assistant City Manager.

"It's always good to receive this acknowledgement from the NPS Marines," said Uslar. "The city of Monterey is committed to having a good relationship with NPS."

*Posted September 10, 2015*



U.S. Navy photo by MC2 Shawn Stewart

### FEW Panel Discusses Gender Equality, Female Submariners

*By Kenneth A. Stewart*

NPS Assistant Professor Kathryn J. Aten with the Graduate School of Business and Public Policy (GSBPP), center, addresses members of the Federally Employed Women's (FEW) Central Coast Chapter, and guests, during a panel discussion at the Dudley Knox Library, Aug. 27. Aten and fellow panelists Professors Gail Thomas and Mark Eitelberg discussed gender equality throughout the military, and the first women to serve aboard U.S. submarines.

"Gender integration of the submarine fleet was one of the final barriers to gender equality in the Navy and its exciting to see that not only is this barrier being broken, but that it is being broken by NPS alumni with the support of NPS faculty," said FEW Central Coast Chapter President Sara Stolt.

Eitelberg, one of only three men to have served in the Women's Auxiliary Core, kicked off the discussion.

"During World War II, African Americans fought for the right to fight so that they could enjoy the rights of citizenship on return. That is also why it has been so important to allow women and gays to serve," explained Eitelberg. "Serving in the military is a right of citizenship. If you are not allowed to serve in that capacity, you're not fully a citizen."

Much of the panel's discussion centered on a thesis titled, "Gender Integration on U.S. Submarines: Views of the First Wave," by NPS graduates Lt. Cmdr. Krysten Ellis and her fellow submariner Lt. Garold Munson. Ellis was one of the first 24 women to serve aboard a U.S. submarine.

*Posted September 9, 2015*



U.S. Navy photo by Javier Chagoya

### NPS Legacies Exhibit in Development at DKL

*By Javier Chagoya*

NPS Dudley Knox Library Electronic Collections Technician Jason Leyk, right, works with Professor of Practice retired Navy Capt. Wayne Hughes, left, on an exhibit titled "NPS Legacies" in the Dudley Knox Library. Hughes donated an extensive collection of his personal journals, research notebooks and correspondence, encompassing six decades of his own development as a naval officer and strategist.

"As I leaf through Capt. Hughes' diaries, school notebooks, other notations and the reams of correspondence that he wrote over 60 years, I can witness his transformation from being a young naval officer ... to a man who is refining his intellect and becoming a supreme naval strategist," said Leyk.

In Hughes' own words, his development as an officer was born of pushing boundaries and thinking deeply about naval challenges.

"I believe the development and maturity of an officer won't come with sunbathing thoughts, but with challenging oneself, with thinking of far-reaching operational and tactical matters," Hughes said.

Leyk, a seasoned researcher who came to NPS from the National Archives, is working with NPS Special Collections Manager John Sanders on the Hughes collection and the "NPS Legacies" exhibit. They hope to open the exhibit by early 2016.

*Posted September 8, 2015*

### MORS Tisdale Competition Recognizes Outstanding OR Thesis

*By MC2 Michael Ehrlich*

Lt. James Carbaugh presents a summary of his thesis to a panel of judges during the Military Operations Research Society (MORS)





U.S. Navy photo by MC3 Michael Ehrlich

Stephen A. Tisdale Graduate Research Award competition in Glasgow Hall, Aug. 27. Each quarter the MORS Tisdale award is presented to a student whose thesis offers the most immediate or near-term value to the U.S. or its allies.

Retired Navy Capt. and NPS Professor of Practice Wayne Hughes served as a judge on the award panel.

"The MORS Tisdale award is one of our most prestigious awards for thesis accomplishment and student participation in operations research [OR]," said Hughes. "[This year's competitors] were a very talented group. They were the hardest group we have ever had to judge."

The winner of the quarter's award was announced just after the competition, with Lt. Cmdr. John Sprague walking away victorious for his thesis, "Optimal Scheduling of Time-Shiftable Electric Loads in Expeditionary Power Grids."

OR Program Officer Lt. Cmdr. Connor McLemore discussed Sprague's selection.

"In a nutshell, the DOD [Department of Defense] spends lots of money on fuel for generators that power environmental control units [ECU]," said McLemore. "Fuel costs for ECU generators in Iraq alone cost well over \$1 billion dollars per year. Lt. Cmdr. Sprague's thesis described a way to centrally manage such generators resulting in fuel cost savings of several hundred million dollars per year to the DOD."

Posted September 4, 2015



U.S. Navy photo by Javier Chagoya

### NPS Alumnus and Bride Return, Renew Vows After 60-Years

By Javier Chagoya

Retired Air Force Maj. Alan Frederick puts a ring on his wife Marcella's hand, left, as they renew their vows at the Naval Support Activity Monterey Chapel in front of Deputy Command Chaplain Lt. Cmdr. John Van Dyke, Aug. 20. The Fredericks chose to renew their vows at NPS, where they married 60 years earlier in Herrmann Hall's Christ the King Protestant Chapel, which is now the Executive Briefing Center.

Marcella Frederick accepted then Lt. Alan Frederick's marriage proposal in 1955 while he attended the Bio-radiology Nuclear Engineering Effects program. He graduated in 1957 and took both a life partner and an NPS education with him.

"Marcella and I went everywhere together as I progressed through the ranks and into challenging and interesting positions," said Alan Frederick. "My studies at NPS helped in my later assignments, [such as] the fire and impact vulnerability project where I helped to create a prediction model for safe missile launches from underground silos."

The Fredericks noted that their journey back to NPS rekindled many memories, reaffirmed their love for each other, and reminded them of how thankful they are for the time they spent serving their country. The Fredericks currently reside in Vandenberg Village, Calif.

Posted September 3, 2015



Courtesy Photo

### Faculty Experience the Navy Firsthand Through Scientists at Sea Program

By Dale M. Kuska

NPS Department of Information Sciences Research Associate Professor Ying Zhao, third from right, and Lecturer Tony Kendall, third from left, are pictured with fellow scientists on board USS Howard (DDG 83) as they embark for the Scientists to Sea program. The effort provides academics and scientists who work on advanced defense technology with a first-hand view of naval vessels and systems in action.

"We were able to see what exactly is needed on a Navy destroyer, as well as the current state-of-the-art with the Aegis combat system," said Zhao. "We were particularly interested in the process of combat ID decision making, and how big data and deep learning might improve the process."

"I think researchers need to be more out in the fleet as a sanity check," added Kendall. "We were not unwelcomed visitors, rather we were part of the Plan of the Day and we could see anyone and go anywhere we wanted. Even the captain made himself available for questions and later even came by and discussed our follow on questions."

The scientists' host on the ship is plenty familiar with NPS, USS Howard Commanding Officer Cmdr. John Fay graduated from the Department of Information Sciences in 2004, and shared great memories of his time on campus with the visiting professors.

"[Cmdr. Fay] is a proud alumnus of NPS, and he represents the best of our school and community," said Zhao. "He has many fond memories of NPS, and his adviser, Dr. Alex Bordetsky. He is very professional, and very knowledgeable about the ship and its combat systems aboard."

Posted September 2, 2015

[VIEW THE ARCHIVE ►](#)



[Contacts](#) | [Employment](#) | [Copyright / Accessibility / Section 508](#) | [Privacy Policy](#) | [FOIA](#) | [Intranet Access](#)

This is an official U.S. Navy website.

All information contained herein has been approved for release by the NPS Public Affairs Officer.

Page Last Updated: Oct 2, 2015 8:02:55 AM | [Contact the Webmaster](#)